

Briefing presented to the...

Nuclear Waste Technical Review Board's Panel on the Waste Management System

By

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Federal Regulatory Framework

- Overview of Federal Role and Responsibility
- DOT Role and Responsibility
- DOT Ongoing Operations
- NRC Role and Responsibility
- NRC Ongoing Operations

Federal Roles and Authorities

Regulators



- Hazardous MaterialsTransportation Act
- Nuclear Waste PolicyAct Section 137



- Nuclear Waste Policy Act
- Nuclear Waste Policy Amendments Act
- Atomic Energy Act

Regulated



- Nuclear Waste Policy Act
- Nuclear Waste Policy Amendments Act
- Atomic Energy Act

DOT - NRC

Memorandum of Understanding (MOU)

Overlapping Regulatory Responsibilities...
MOU Adopted in 1979



- DOT has responsibility for the overall classification of radioactive material and the standards/requirements for both Type A and LSA/SCO materials
- DOT has responsibility for developing overall safety standards for mechanical condition of carrier equipment, driver qualifications, loading and unloading, vehicle placarding, and communication
- DOT serves as National Competent Authority

Continue.

DOT - NRC

Memorandum of Understanding (MOU)



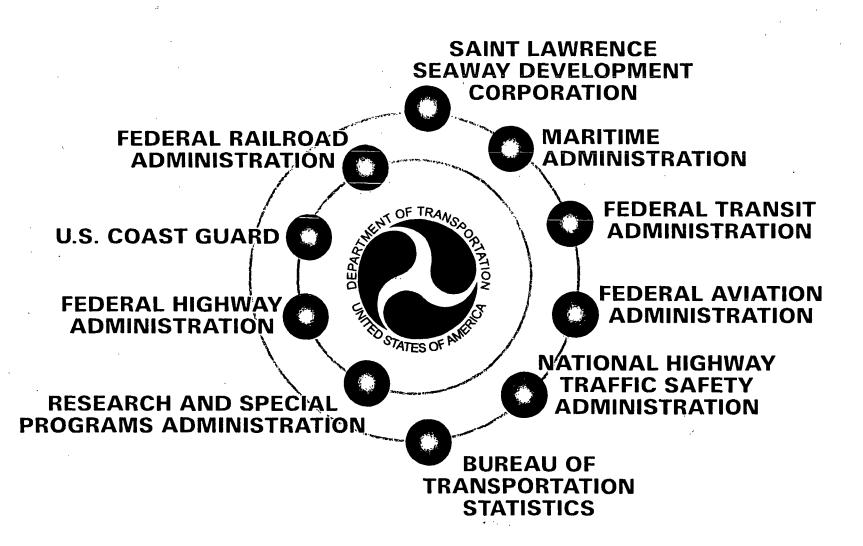
- NRC is responsible for regulating receipt, possession, use, and transfer of by-product, source, and special nuclear materials
- NRC develops standards for design and performance of packages for Type B and Fissile materials

DOT 2 - DOE

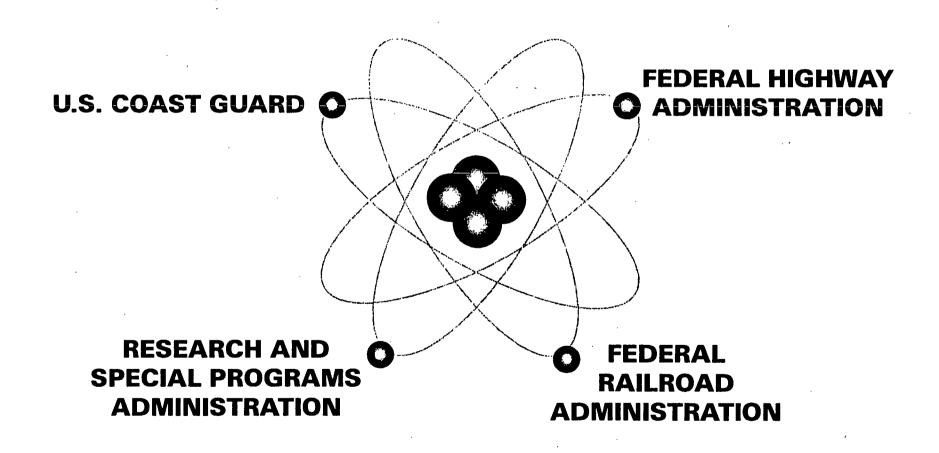
Memorandum of Understanding (MOU)

- DOT and DOE both have responsibilities under the Nuclear Waste Policy Act
- MOU specifies that management of transportation under NWPA resides with DOE/OCRWM
- Transportation to any repository developed under NWPA will be subject to applicable DOT regulations
- Compliance and inspection shall be managed jointly and will address pre-shipment, en route, and post shipment requirements
- MOU provides for procedures for consultation and exchange of information

Department of Transportation Operating Elements



Operating Elements -High Level Radioactive Materials



Ongoing Operations

- Highway and Rail Routing Requirements
- Preemption
- Enforcement Program
- Training Requirements
- Mode and Route Study
- Dedicated Train Study

Highway Routing Requirements

- Highway routing of spent nuclear fuel (SNF) is regulated by FHWA
- Shipment of SNF must travel "preferred routes" (Absent State action, preferred route is Interstate highway system)
- State may designate route alternatives in accordance with "Guidelines for Selecting ..." and in consultation with local jurisdictions and affected States

Rail Routing Requirements

- No specific RAIL routing requirements
- RAIL routes determined by carriers, generally in conjunction with shippers
- RAIL spent fuel shipments in compliance with overall safety regulations

Preemption

Any requirement of a State or political subdivision thereof or Indian tribe preempted if ...

- Compliance with both the State or political subdivision or Indian tribe requirement and any requirements of an applicable federal regulation is not possible, or
- The state or political subdivision or Indian tribe requirement, as applied, creates an obstacle to the execution of an applicable federal regulation, or
- Any provision concerning a "covered subject" which is not "substantively the same" as the hazardous materials regulation

Enforcement Program

- Office of Hazardous Materials Enforcement
- DOT Modal Administrations
- Nuclear Regulatory Commission
- State and Tribal Governments

Training Requirements

- In accordance with Subpart H of 49 CFR Part 172, a hazardous materials employer is required to provide function specific training encompassing:
 - General awareness / familiarization training
 - Specific training for job function performed
 - General safety training
- Similar mode specific training requirements are detailed in parts 174, 175, 176, and 177

Mode and Route Study

Required by:

 Section 15, Hazardous Materials Transportation Uniform Safety Act of 1990

Purpose:

- "...To determine which factors, if any, should be taken into consideration by shippers and carriers in order to select routes and modes which, in combination, would enhance overall public safety..."
- "...Assess the degree to which various factors...affect the overall public safety of such shipments..."

Dedicated Train Study

Purpose:

- Assess the comparative safety of transporting high-level radioactive materials
- HMTUSA requires reassessment of regulations based on study findings